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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-13-74 **Date: 03-12-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division,
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-11-2018
Sample ID No	:	2018-12-13-73 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-12-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-13-74** **Date: 08-12-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-11-2018
Sample ID No	:	2018-12-13-73 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-12-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-13-74** **Date: 03-12-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	30-11-2018
Sample ID No	:	2018-12-13-73 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-11-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-12-13-74 **Date: 03-12-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-11-2018
Sample ID No	:	2018-12-13-73 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-11-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-13-74** **Date: 03-12-2018**

Sample ID No : 2018-12-13-73 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 03-12-2018

Lab ID	:	CP-2018-12-13-74
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-11-2018
Sample ID No	:	2018-12-13-73 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	30-11-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-12-13-74 **Date: 10/12/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-2018
Sample ID No	:	2018-12-13-74 /02
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.53 X 150.18 X 150.42	22607	8.839	414.4	18.3	18.4
2	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.53 X 150.33 X 150.46	22629	8.597	423.0	18.7	
3	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.35 X 150.10 X 150.44	22568	8.454	413.2	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-12-13-74 **Date: 10/12/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-2018
Sample ID No	:	2018-12-13-74 /03
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.48 X 150.52 X 150.43	22650	8.312	396.4	17.5	17.5
2	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.52 X 150.35 X 150.42	22631	8.331	393.8	17.4	
3	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.52 X 150.38 X 150.33	22635	8.345	398.4	17.6	

Note: M20

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-12-13-74 **Date: 10/12/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-2018
Sample ID No	:	2018-12-13-74 /05
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.52 X 150.35 X 150.46	22631	8.312	393.8	17.4	17.6
2	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.54 X 150.44 X 150.43	22647	8.331	405.4	17.9	
3	M20 CONCRETE	M20	03/12/2018	10/12/2018	150.38 X 150.45 X 150.54	22625	8.345	398.2	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-12-13-74

Date: 11/12/2018

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP,Bangalore.

Project Name : Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04

Agency : Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64

Customer's Reference : EE(TNK.D)E-PMT-21/WO/90/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-12-2018

Sample ID No : 2018-12-13-74 /01

Customer ID : M20 CONCRETE

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 11/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	04/12/2018	11/12/2018	150.48 X 150.57 X 150.42	22658	8.312	398.8	17.6	17.7
2	M20 CONCRETE	M20	04/12/2018	11/12/2018	150.52 X 150.42 X 150.47	22641	8.331	405.3	17.9	
3	M20 CONCRETE	M20	04/12/2018	11/12/2018	150.41 X 150.52 X 150.37	22640	8.345	400.7	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-12-13-74 **Date: 11/12/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-12-2018
Sample ID No	:	2018-12-13-74 /03
Customer ID	:	M20 CONCRETE
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 CONCRETE	M20	04/12/2018	11/12/2018	150.42 X 150.38 X 150.45	22620	8.312	402.6	17.8	17.8
2	M20 CONCRETE	M20	04/12/2018	11/12/2018	150.52 X 150.42 X 150.45	22641	8.331	405.3	17.9	
3	M20 CONCRETE	M20	04/12/2018	11/12/2018	150.40 X 150.46 X 150.52	22629	8.345	398.3	17.6	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig Date BANGALORE

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-12-13-74**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP,Bangalore.
Project Name	:	Intimation Of Work Order To Start The Work Of Construction Of CC Roads At Hanumappa Layout In Ward No 04
Agency	:	Sri Kishore Kumar M No:520, 21st Main, Chikkabommasandra, Yelahanka New Town, Bangalore-64
Customer's Reference	:	EE(TNK.D)E-PMT-21/WO/90/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-11-2018
Sample ID No	:	2018-12-13-73 /06
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	01/12/2018

Date: 05-12-2018

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.49	100.48	1.116	4475	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.5	100.52	1.122	4476	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.51	100.51	1.118	4477	81.5	18.2	16.9	21.2

Note:
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All information furnished by the Customer/Representative
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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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